

BIOGRAPHICAL SKETCH

NAME: Andrew A. Rooney

POSITION TITLE: Post-doctoral Fellow NCSU/US EPA
Cooperative Training Program in Environmental Sciences

EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
Brown University	B.S.	Dec 1990	Biology
University of Florida	M.S.	June 1994	Zoology
University of Florida	Ph.D.	Dec 1998	Zoology

PROFESSIONAL EXPERIENCE:

2000-Present Post-doctoral Fellow NCSU/US EPA Cooperative Training Program in Environmental Sciences
Research for Dr. Robert W. Luebke. Immunotoxicology Branch, Environmental Toxicology
Division, National Health Effects Research Laboratory, US Environmental Protection Agency,
Research Park, NC.

1999-2000 Post-doctoral Research Scientist for Drs. Michel Fournier and Daniel Cyr. Université du Québec,
Institut national de la recherche scientifique, INRS-SANTÉ, Pointe-Claire, Québec, Canada.

PROFESSIONAL SOCIETIES:

North Carolina Chapter Society of Quality Assurance (2002)
Society of Integrative and Comparative Biology Membership (1995)
Sigma Xi membership, Brown University, Providence, Rhode Island. (May 1991)

SELECTED AWARDS AND HONORS:

NTO Co-Chair-November (2002)
NTO (National Health Effects Research Laboratories Trainee Organization) Member (November 2000)
NIEHS/EPA Biomedical Science and Career Fair Organization Co-Chair (June 2002)
Award recipient to host an Intern from the Institute for Tribal Environmental Professionals Summer Intern (April
2001)
National Research Grant of Canada (January 1999- October 2000)
Cirtox (Centre interuniversitaire de recherche en toxicologie) Outstanding Oral Presentation, Université du Québec à
Montréal, Montréal, Québec (May, 2000)

ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:

NIEHS/EPA Biomedical Science and Career Fair Organization Co-Chair. June 2002:
Contact all biotechnology companies in North Carolina including the major, minor, and contract research agencies to
facilitate a Career Fair at NIEHS April 25th 2003. Over 250 young scientists pre-registered for the event. Close to
20 research agencies were involved or agreed to present career information at the Fair, including NHEERL.
Hosted Paul Anagale, a intern from the Institute for Tribal Environmental Professionals Summer Intern Project for
the period of May-July during which Dr. Luebke and I attempted to provide the intern with as sound basis of
instruction and experience in government research in immunotoxicology

ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY:

NTO (National Health Effects Research Laboratories Trainee Organization) Co-Chair-Since November 2002.
Organizing Scientific and Career Based Brown Bag lectures for the Trainees of RTP's NHEERL organization
Including topics such as Grant Writing, Certification by DABT, and the Pros and Cons of Academia

PUBLICATIONS (From January 1, 1998 to present, 16 out of a total of 26 publications):

Reviewed Papers

1. Guillette, LJ, Jr. JW Brock, AA Rooney, and AR Woodward. (1999) Serum concentrations of various

environmental contaminants and their relationship to sex steroid concentrations and phallus size in juvenile American alligators. *Archives of Environmental Contamination and Toxicology* 36:447-455.

2. Guillette, LJ, Jr., AR Woodward, DA Crain, DB Pickford, AA Rooney and HF Percival. (1999) Plasma steroid concentrations and male phallus size in juvenile alligators from seven Florida lakes. *Gen Comp Endocrinol* 116:356-372.

3. Burger J, Gochfeld M, Rooney AA, Orlando EF, Woodward AR and LJ Guillette, Jr. (2000) Metals and metalloids in tissues of American alligators in three Florida lakes. *Arch Environ Contam Toxicol* 38: 501-508.

4. Pickford DB, Guillette LJ, Jr., Crain DA, Rooney AA and AR Woodward (2000) Plasma dihydrotestosterone concentration and phallus size in juvenile American Alligators (*A. mississippiensis*) from contaminated and reference populations. *J Herpetol* 34: 233-239.

5. Guillette LJ, Jr., DA Crain, M Gunderson, S Kools, MR Milnes, EF Orlando, AA Rooney and AR Woodward (2000) Alligators and endocrine disrupting contaminants: A current perspective. *Am Zool* 40:438-452.

6. Milnes MR, Woodward AR, Rooney AA and LJ Guillette, Jr. (2002) Plasma steroid concentrations in relation to size and age in juvenile alligators from two Florida lakes. *Comp Biochem Physiol A Mol Integr Physiol* 131: 923-930.

Papers in press

1. Rooney AA, Bermudez DS and LJ Guillette, Jr. (2003) Population variation in the histology of the thymus and spleen of juvenile American alligators. *J Morph.*

2. Pickford, D.B., D.A. Crain, A.A. Rooney, E.F. Orlando and L.J. Guillette, Jr. Endocrine disrupters in lower vertebrates: alternative mechanisms of action. *Herpetological Journal*.

Papers Under Review

1. Rooney AA, M. Fournier, J Bernier and DG Cyr. Neonatal exposure to propylthiouracil (PTU) induces a shift in lymphoid cell sub-populations in the developing postnatal male rat spleen and thymus. *Toxicology and Applied Pharmacology*

2. Rooney AA, DA Crain, A Woodward and LJ Guillette, Jr. Seasonal variation in plasma sex steroid concentrations in juvenile American alligators. *Endocrinology*

3. St-Pierre N, J Dufresne, AA Rooney and DG Cyr. Transient neonatal hypothyroidism alters the gap junctional protein connexin 43 localization in the testis and mRNA levels in the epididymis of the rat. *Endocrinology*

4. Rooney AA, MR Milnes, A Woodward and LJ Guillette, Jr. The effect of extended capture stress on plasma corticosterone and testosterone in juvenile alligators, *Alligator mississippiensis*, from contaminated and reference lakes in Florida. *Comparative Biochemistry and Physiology. Part C, Pharmacology, Toxicology & Endocrinology*

Books and Book Chapters

1. Guillette LJ, Jr., AA Rooney, DA Crain, and EF Orlando. (1999) Steroid Hormones As Biomarkers of Endocrine Disruption in Wildlife, *In* D.S. Henshel, M.C. Black, and M.C. Harrass (eds.) "Environmental Toxicology and Risk Assessment: Standardization of Biomarkers for Endocrine Disruption and Environmental Assessment." American Society for Testing and Materials, West Conshohocken, pp. 254-270

2. Rooney AA and LJ Guillette, Jr. (2000) Contaminant Interactions with Steroid Receptors: Evidence for Receptor Binding. *In* LJ Guillette, Jr. and DA Crain (eds.) "Endocrine Disrupting Contaminants: Evolutionary and Comparative Approaches". Taylor and Francis, New York, pp. 82-125.

3. Crain DA, AA Rooney, EF Orlando and LJ Guillette, Jr. (2000) Endocrine-Disrupting Contaminants and Hormone Dynamics: Lessons from Wildlife. *In* LJ Guillette, Jr. and DA Crain (eds.) "Endocrine Disrupting Contaminants: Evolutionary and Comparative Approaches". Taylor and Francis, New York, pp. 1-21.

4. Rooney, A.A. and L.J. Guillette, Jr.. (2001) Biotic and Abiotic Factors in Crocodilian Stress: The Challenge of a modern Environment. *In* GC Grigg, F Seebacher and CE Franklin (eds.) "Crocodilian Biology and Evolution". Surrey Beatty and Sons PTY Limited, New South Wales, pp. 214-228